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- On 31 October 1951, Prof. Dr. Heinrich Bertsch of the Hauptverwaltung Chemie, DDP Ministry for Heavy Industry, held a meeting attended by leading East German chemists. The subject under discussion was the support which universities and other research institutes could give the Hauptverwaltung Chemie in the current Five Year Plan. Among those present were
 - a) Dr. (fnu) Panning, Central Office for Research and Technique, State Planning Commission.
 - b) Er. (fnu) Petersen, SAG Farbenfabrik, Wolfen.
 - c) Dr. (fnu) Leibnitz, director, Institute for Chemical Technology, Leipzig University, and chief of VEB Plasta, Leipzig.
 - d) Directors of chemical institutes of various East Zone universities.
 - At the meeting, the following statements on DDR chemical production were made:
- Sulfuric Acid: If the planned production of SO₃ is to be reached, the DDR will have to increase its production capacity by 275,000 tons per year by 1955. Each year 95,000 tons of pyrites can be mined, which yields about 72,000 tons of sulfuric acid. From Bulgaria 200,000 tons of pyrites will be imported annually yielding about 150,000 tons of SO₃. At the end of the Five Year Plan, the government hopes to be able to produce 500,000 tons annually. This would correspond to 170 to 180 per cent of the 1938 production in the area now included in the DDR. In order to meet the goal, the Ministry for Neavy Industry, in cooperation with the State Planning Commission, plans to develop new methods for the production of SO₃ from unexploited minerals in the DDR, particularly gypsum and magnesium. It will also be necessary to produce in the future sulfuric acid from Kieserite, a mixture composed mainly of MgSO₁ and MgCl₂. A pilot plant near Oranienburg is now producing 35 tons of SO₃ per month, using Kieserite. A contact installation which uses Kieserite according to the Kammerver-fabren is being constructed in Minchritz.
- 3. Nitric Acid and Other Inorganic Chemicals:
 - a) By 1955, production of HNO2 is to be 500,000 tons annually.

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- b) In 1953 a hydrogen peroxi. plant will be constructed at an unspecified place in the DDR.*
- c) Production of phosphorous has begun in Piesteritz and is to be increased.
- Aluminum and Magnesium: Fifty thousand tons of aluminum and 150,000 tons of magnesium (For the alloying industry) are to be produced annually by 1955 in the DDR. Since it is considered impossible to import raw materials for aluminum production indefinitely, in the future alumina will be worked with chloric acid. But first alumina production must be increased and the production methods developed. Alumina production at the Lauta works is now 30,000 tons a year; this is to be increased to 50,000 tons in 1952.

. Al'alious matter:

- a) By 1955 NaON production is to be increased to 400,000 tons annually.
- b) Production of calcinized soda (anhydrous MagCO3) is to be increased to CLO,000 tons a year by 1955. In order to reach a capacity of 1,200 tons per year, the Ministry for Meany Industry plans to rebuild the soda production installations of the Solvay works in Bernburg, against the advice of Prof. Dr. Bortsch. Bertsch believes that soda production should be resumed on a large scale at the Leuna works, as a bywroduct of ammonia production, using the large quantities of CO2 there. For unknown reasons, Bertsch's advice has not been heeded.
- c) Sodium metal production has begun recently in Granienburg. A small quantity is also produced in litterfeld, but it produces complaints since it contains excessive amounts of potassium, is very dangerous, and has caused a number of accidents. In both plants, production is achieved electrolytically from MaDN.**
- d) Barium salts, not now being produced, will be made by Garungschemie (formerly Zuckerraffinerie), Lessau, in 1952.
- 6. Organic Chemicals: The Five Year Plan requires that lignite, the main base product for organic chemicals, be produced at an increasing rate.
 - a) The 1951 production of 7,000 tons of pure phenol is to be increased to 20,000 tons by 1955, mainly by improving methods of obtaining it from distillery waste water (Schwelerei). The synthesis of phenol from benzol is not considered possible, since benzol is even more scarce in the DDR than phenol.
 - b) By 1955, between 30,000 and 50,000 tons of beamol will be needed each year.
 - c) By 1955, 20,000 tons of toluene will be needed annually, mostly for the production of torylene fiber. VEB Plasta, Leipzin has developed on laboratory scale a mothod of producing toluene from orthocreosol and zinc, yielding a by-product of high-quality zinc exide. The zinc necessary, however, for large scale production would have to be imported.
 - d) Considerable oil denosits have been discovered in the DDR. One is located near Langensalza, in the southern Harz mountains, where oil has been found under the potassium deposits. The yield is not known, although the deposits have been tabled. Discovery of the oil "makes it possible to consider the production of acetylene from methane in the future." A trial installation (Versuchsanlage) for this is working in Leuna; it is operating according to the Huls method.***
 - e) The 2,000 to 3,000 tons of aniline needed in the DDR annually has to be imported. A number of SAG's and other works have promised to produce it, but have not done so as yet.
 - f) 1991 production of phthalic anhydride was 6,000 tons. An annual production of 10,000 tons is planned by 1995.

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g' Following are other requirements for production by 1955;

Taleine acid, 6,000 tons annually Adipine acid, 6,000 tons annually Pinoline acid, 2,000 tons annually.

Since phenol supplies are insufficient, furfural chemistry on a pentose basis must be developed as a starting point in the production of the above dicarbonic acids. 1951 production at <u>Garungsche die</u> was 800 tons of furfural, made by wood hydrolysis. Furfural could be produced from lecklenburg peat, but the yield of one per cent is not economically feasible. Until 1955, 9,000 tons of 100 per cent synthetic fiber (voll synthetisch) are to be produced; these will mainly be perlon, nylon, terylene and orlon.

- h) Clycerine can only be produced according to the Reppe synthesis of acetylene and formaldehyde.**** Preliminary research (Vorarbeiten) is carried out at the Buna works, Schkopau.
- i) Improvement of projection of fatty acids through paraffly exidation and synthesis of fatty acids from polyenales are two other problems of chemical research in the DDR Five Year Plan.

Comment: 1202 is alread, being produced at the former IC	
works in Ellenburg. It is about a 30% concentration, and, there fore, not usable as an oxygen carrier for rockets.	
** Comment:	
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titles of calcium metal have been supplied to chemical institute and leberatories by Bitterfeld without intercuption, but it is a known whether these come from old supplies or new production.	
Comment: Some of the acetylene produced at Leana goes to the Buna works in Schkopau, where butadiene is produced by the Reppe method, from acetylene on a pilot plant scale.	50X1-HUM
Comment: CH = CH / CH2O> HC = C-CH2OH (Propargyl alcohol) / H2> H2C = CH - CH2OH (Allyl alcohol) / HOCL	50X1-HUM
100H2 - CH - CH2 - OH> 1100H2 - CH0.1 - CH20H	

(Glycerine). Successful conclusion of the Schkopau research would be extremely important, because the DIN cannot afford to produce glycerine from fats which are vitally needed in the food industry.